

REMARKS

Claims 1-5, 7-18, 20-22, 25-34, 37, 38, 41-43, 45-47, 49-53, 55-58, and 61-70 are currently pending. As indicated above, Claim 8 has been amended. It is gratefully acknowledged that the Examiner had found allowable subject matter in Claims 31 and 55.

In the Office Action, the Examiner has rejected Claims 1-3, 5, 7, 8, 12-17, 20-22, 26-30, 32-34, 37, 38, 41, 45-47, 50-53, 56-58, 61, 62, 64-66, 68, and 69 under 35 U.S.C. § 103(a) as being unpatentable over *Yi et al.* (U.S. 5,978,365) in view of Applicants' Admitted Prior Art (AAPA), Claim 4 under 35 U.S.C. § 103(a) as being unpatentable over *Yi* in view of AAPA, and further in view of *Rowitch et al.* (U.S. 6,304,991 B1), Claims 11, 63, 67, and 70 under 35 U.S.C. § 103(a) as being unpatentable over *Yi* in view of AAPA, and further in view of *Nakakita et al.* (U.S. 6,061,820), Claims 25 and 49 under 35 U.S.C. § 103(a) as being unpatentable over *Yi* in view of AAPA, and further in view of *Williamson et al.* (U.S. 6,615,387 B1), and Claims 9, 10, 18, and 43 under 35 U.S.C. § 103(a) as being unpatentable over *Yi* in view of AAPA, and further in view of *Kim et al.* (U.S. 5,581,109). Additionally, the Examiner has objected to Claim 8.

Additionally, it is noted that the Examiner has not allowed or provided a rejection or objection to Claim 42. Accordingly, it is respectfully requested that Claim 42 be examined.

With regard to the objection of Claim 8, the Examiner asserts that Claim 8 should read "to the regular pattern". Accordingly, as the word "pattern" was inadvertently omitted from Claim 8, Claim 8 has been amended as suggested by the Examiner. Therefore, it is respectfully requested that the objection to Claim 8 be withdrawn.

With regard to the rejection of independent Claims 1, 13, 27, 37, 51, 61, 65, and 68, the Examiner asserts that *Yi* teaches an interleaver 601 for interleaving the information bit stream and at least one parity stream from an encoder. Further, in FIG. 6 of *Yi* the Examiner cites X1 as an equivalent of the information bit stream and Y1 as at least one parity stream. However, as clearly shown in FIG. 6, interleaver 601 does not even receive the alleged parity bit stream Y1. Further, the interleaver 601 does not receive any signals from the encoder 602A. Therefore, it is

respectfully submitted that the Examiner is incorrect, as *Yi* does not teach an interleaver for interleaving the information bit stream and at least one parity stream from an encoder, as recited in independent Claims 1, 13, 27, 37, 51, 61, 65, and 68.

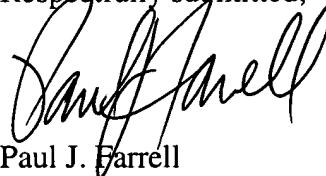
Additionally, with regard to independent Claims 1, 27, 51, 61, and 68, each of these claims teach an encoder that receives an information bit stream, encodes this information bit stream, and outputs an encoded information bit stream (or second information bit stream), which is then received in an interleaver. As indicated above, the Examiner asserts that signal X1 of *Yi* is an equivalent of the encoded information bit stream recited in Claims 1, 27, 51, 61, and 68. However, as shown in FIG. 6 and clearly recited in Column 14, lines 39-42 of *Yi*, X1 merely represents the unaltered source sequence d_k . Therefore, it is respectfully submitted that the Examiner is incorrect in asserting that *Yi* teaches an encoder for receiving an information bit stream and outputting an encoded information bit stream, as the encoder 602A only outputs W1, which represents the unaltered source sequence d_k , and the alleged parity bit stream Y1.

Accordingly, based on the arguments above, it is respectfully submitted that the Examiner is incorrect in rejecting Claims 1, 13, 27, 37, 51, 61, 65, and 68, and it is respectfully requested that the rejections to these claims be withdrawn.

As dependent Claims 2-5, 7-12, 14-18, 20-22, 25, 26, 28-34, 38, 41-43, 45-47, 49-50, 52-53, 55-58, 62-64, 66-67, and 69-70, depend from independent Claims 1, 13, 27, 37, 51, 61, 65, and 68, it is respectfully submitted that these claims are also distinguishable over the Examiner's cited art.

Accordingly, all of the claims pending in the Application, namely, Claims 1-5, 7-18, 20-22, 25-34, 37-38, 41-43, 45-47, 49-53, 55-58, and 61-70, are believed to be in condition for allowance. Should the Examiner believe that a telephone conference or personal interview would facilitate resolution of any remaining matters, the Examiner may contact Applicants' attorney at the number given below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Paul J. Farrell", is written over the typed name.

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